

Title (en)

Method and device for reconditioning and testing used concrete sleepers

Title (de)

Verfahren und Vorrichtung zur Aufarbeitung und Überprüfung gebrauchter Betonschwellen

Title (fr)

Méthode et dispositif pour remise en état et test des traverses utilisées en béton

Publication

EP 1533421 A3 20060517 (DE)

Application

EP 04018791 A 20040807

Priority

DE 10354483 A 20031121

Abstract (en)

[origin: EP1533421A2] To process and test used concrete sleepers (1), from a railway permanent way, the quality of the concrete is tested by an acoustic ultrasonic analysis, and its elasticity is tested by bending stresses. The depression is measured where the rails lay, and the strength of the screw bolts (2) and dowels (3) anchored in the concrete is assessed by pulling (6) at a clamp (4) on them while the surrounding zones (5) are secured. The concrete sleeper is also inspected visually for any cracks, or other faults.

IPC 8 full level

E01B 31/20 (2006.01); **E01B 29/06** (2006.01); **E01B 31/24** (2006.01); **E01B 37/00** (2006.01); **E01B 29/28** (2006.01)

CPC (source: EP)

E01B 29/06 (2013.01); **E01B 31/20** (2013.01); **E01B 37/00** (2013.01); **E01B 29/28** (2013.01)

Citation (search report)

- [A] DE 20306701 U1 20030807 - DB BAHNBAU DEUTSCHE BAHN GRUPP [DE]
- [A] DE 1167062 B 19640402 - MEIER HERMANN DR ING
- [A] DE 10030305 A1 20011129 - SCHRECK MIEVES GMBH [DE]
- [A] GB 973708 A 19641028 - CLEVELAND TECHNICAL CT INC
- [A] DATABASE WPI Section EI Week 199438, Derwent World Patents Index; Class S03, AN 1994-310049, XP002372928

Cited by

EP2669434A3; FR3061917A1; CN110199063A; RU2729910C1; WO2009129554A1; WO2018134506A1

Designated contracting state (EPC)

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